

• Authorization To Offer Non-Degree Extension Credit Course Through Extended Studies •

1. Desired Term: Summer 2007		Year of implementation: 2007													
2a. Course abbreviation and Number: EDUC E1065		2b. Abbreviated Title: (No more than 25 characters, including spaces) Teaching Pre-Algebra (SEISMIC Project)													
		4. Number of Units: 3	5. Billing Units: 3												
6. Allowed Student Levels: UG X GR X EE X (Default is to check all three levels)															
7. Grading Method: <input type="checkbox"/> N Normal (N) (Default is Letter Grade +/-, Students may request Credit/No Credit) <input type="checkbox"/> Normal Plus Report-in-Progress (NP) (As for Normal; also allows Report-in-Progress) <input type="checkbox"/> Credit/No Credit Only (C) <input type="checkbox"/> Credit/No Credit or Report-in-Progress Only (CP)															
8. Mode of Instruction: (See pages 17-23 at http://www.calstate.edu/cim/data-elem-dic/APDB-Transaction-DED-SectionV.pdf for definitions of the Course Classification Numbers)		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Type of Instruction</th> <th>Number of Credit Units</th> <th>Instructional Mode (Course Classification Number)</th> </tr> </thead> <tbody> <tr> <td>Lecture</td> <td style="text-align: center;">3</td> <td style="text-align: center;">C-05</td> </tr> <tr> <td>Activity</td> <td></td> <td></td> </tr> <tr> <td>Lab</td> <td></td> <td></td> </tr> </tbody> </table>		Type of Instruction	Number of Credit Units	Instructional Mode (Course Classification Number)	Lecture	3	C-05	Activity			Lab		
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Lecture	3	C-05													
Activity															
Lab															
9. Attributes: Course Requires Consent for Enrollment? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Faculty <input type="checkbox"/> Credential Analyst <input type="checkbox"/> Dean <input type="checkbox"/> Program/Department - Director/Chair Prerequisites: _____ Co-requisites: _____															
10. Does this course impact other discipline(s)? (If there is any uncertainty as to whether a particular discipline is affected, check "yes" and obtain signature.) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, obtain signature(s). Any objections should be stated in writing and attached to this form.															
Discipline _____	Signature _____	Date _____	Support <input type="checkbox"/> Oppose <input type="checkbox"/>												
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Important : Please Complete


1. Instructor: **Kelli Wise**

2. Extension Course Proposal Form - attached


SIGNATURES: (COLLEGE LEVEL)

N/A

1. Program Director/Chair _____ Date _____

2. College Dean (or Designee)  _____ Date **5/10/07**

(UNIVERSITY LEVEL)

3. Dean of Extended Studies (or Designee)  _____ Date **05/17/07**

4. Vice President for Academic Affairs (or Designee) _____ Date _____



OFFICE OF EXTENDED STUDIES EXTENSION COURSE PROPOSAL FORM

In planning the components of our Extended Studies program at Cal State San Marcos, this office consults closely with the academic colleges and departments to determine the suitability of course content, teaching methods and instructor qualifications. To assist us in evaluating your proposed course for credit, please submit this completed form to our office as soon as possible. Questions before you submit? Call me at (760) 750-8713.

- **Course Title: Teaching Pre-Algebra: SEISMIC Project Summer Institute**
- **Course Description:** SEISMIC Project Summer Institute for Middle & High School teachers a continuation of "Teaching Math: SEISMIC Project" (EDUC E1043). It is intended for teachers of grades 8-Algebra 1 who are responsible for mathematics instruction. The purpose of this course is to increase mathematical content knowledge and related pedagogy. Topics include: an in depth analysis of the concepts embedded in the California State Mathematics Standards, including key standards and the CST test blue print; teaching for understanding in the area of number sense, especially as it relates to fractions and ratios; learning about more about and refining their lesson study practices and how to use lesson study more effectively in the classroom; an improved understanding of how students learn math; and a better understanding of the interaction between mathematical content, pedagogy and student thinking.
- **Course Objectives:**
 - Students will identify the key mathematics standards for their grade level in the area of number sense, especially fractions and ratios.
 - Students will sort the mathematics number sense standards by categories based on levels of importance.
 - Students will identify standards from all mathematical strands and build a unit about fractions and ratios from these standards including the approximate time needed to spend on the unit and the reasons for the amount of time to be spent.
 - Students will identify mathematical concepts within the number sense standard(s) for a lesson in the unit to be designed and include these concepts in the lesson they are to design.
 - Students will identify student misconceptions that may occur during the lesson and incorporate how to address these into the lesson.
 - Students will design a lesson that uses the lesson study format and includes methods that address teaching concepts for understanding, use of cognitive development, their learned understanding of how students best learn math, and includes opportunities for teacher decisions based on students needs and understandings during the lesson to be designed thus showing their understanding of the interaction between content, pedagogy, student knowledge and student thinking .
 - Students will identify math standards from previous grade levels in order to design the unit and lesson such that differentiation and identification of a student's background knowledge can occur.
- **Evaluation:**

Students will actively participate in discussions and written reflections during this course that indicate their level of understanding (25%). They will also write a lesson study unit and a study lesson based upon the objectives of the course (75%).
- **Course Length:** This course will include 5 consecutive 8 hour days with follow-up session in Fall (TBD).
- **Proposed Date(s):** August 6-10, 2007
- **Location:** CSUSM campus. Rooms TBD
- **Support Needs:** *None*
- **Comments:** Dr. Tom Bennett is our guest lecturer/consultant again this year.

When completed, please return this form, along with an up-to-date resume (with teaching references) to: Catherine Boyle Asker, Office of Extended Studies, Cal State San Marcos, 333 S. Twin Oaks Valley Rd., San Marcos, CA 92096; FAX: (760)750-3138; E-mail: cboyle@csusm.edu